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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,875	01/23/2004	Mark Horton	018360/269788 6010	
826 ALSTON & BI	7590 02/24/200 RD LLP	EXAMINER		
	ERICA PLAZA	SAMS, MATTHEW C		
	RYON STREET, SUIT NC 28280-4000	ART UNIT	PAPER NUMBER	
			2617	
		MAIL DATE	DELIVERY MODE	
		02/24/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No	ation No. Applicant(s)					
		10/763,875		HORTON ET AL.				
		Examiner		Art Unit				
		MATTHEW SA	MS	2617				
The MAILING DATE of the Period for Reply	his communication app	pears on the cov	er sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY WHICHEVER IS LONGER, FF - Extensions of time may be available und after SIX (6) MONTHS from the mailing of - If NO period for reply is specified above, - Failure to reply within the set or extended Any reply received by the Office later that earned patent term adjustment. See 37	ROM THE MAILING DA er the provisions of 37 CFR 1.1 date of this communication. the maximum statutory period of depended for reply will, by statute to three months after the mailing	ATE OF THIS C 36(a). In no event, ho will apply and will expire, cause the application	COMMUNICATION wever, may a reply be time e SIX (6) MONTHS from to become ABANDONE	I. lely filed the mailing date of this c (35 U.S.C. § 133).				
Status								
1) Responsive to communi	cation(s) filed on 18 D	ecember 2008						
2a) This action is FINAL .		action is non-fi	nal					
′ _	<i>'</i> —			secution as to the	e merits is			
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	·		•					
·	ding in the application							
` ·	Claim(s) <u>1-28</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
· _ · · 	5) Claim(s) is/are allowed.							
· · · · · · · · · · · · · · · · · · ·)⊠ Claim(s) <u>1-28</u> is/are rejected.)□ Claim(s) is/are objected to.							
8) Claim(s) are subj	-	r election requir	ement					
	ect to restriction and/o	r election requi	ement.					
Application Papers								
9)☐ The specification is object	-							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of References Cited (PTO-89 2) Notice of Draftsperson's Patent Drav 3) Information Disclosure Statement(s) Paper No(s)/Mail Date	ving Review (PTO-948)	4) [5) [6) [Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	te				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on

12/18/2008 has been entered.

2. Claims 1, 6, 11, 18, 20 and 23 have been amended.

3. The claim status needs to be updated to show that claims 6 & 23 have been

amended. Due to the minor amendments to these claims, the examiner is not

considering this amendment non-compliant.

Information Disclosure Statement

4. The information disclosure statement filed on 11/8/2008 has been considered.

Response to Arguments

5. Applicant's arguments filed 12/18/2008 have been fully considered but they are

not persuasive.

6. In response to the applicant's argument regarding claim 1 that the Applicants

respectfully assert that the "dispatch plan" claimed in independent claim 1 is

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fundamentally different from the "planned RF coverage" concept disclosed in Somoza" (Page 12), the examiner agrees.

However, Somoza's "planned RF coverage" (Fig. 6 [620]) is more analogous to "test parameters" and the "street map data" (Fig. 6 [620]) is analogous to the "dispatch plan". From this information, Somoza determines an "optimal drive test route" (Col. 8 line 3) used to determine the actual RF propagation of a base station. Applying Somoza's teachings to Rickli's method of testing a wireless communication network by using garbage trucks and courier services that have pre-planned daily routes, one of ordinary skill in the art would have been motivated to use the computer simulation of Somoza to determine which fleet vehicles of Rickli should optimally be used in order to accurately test the cell coverage based on which garbage collection routes are being driven that day or the packages to be delivered and the planned RF coverage.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-6, 8-23 and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rickli et al. (US-5,481,588 hereinafter, Rickli) in view of Somoza et al. (US-6,336,035 hereinafter, Somoza).

Regarding claim 1, Rickli teaches a method of testing electromagnetic signal strength near a target area (Col. 2 lines 17-20 *i.e.* testing the field strength in a particular cover area), comprising:

establishing test parameters; (Col. 1 line 51 through Col. 2 line 2, Col. 2 lines 17-19, 40-59 and Col. 5 line 44-51)

operating a fleet of vehicles serving a territory near said target area (Col. 2 lines 60-67 and Col. 5 lines 23-31 "courier services", "taxis" & "Refuse disposal trucks"), each of said vehicles assigned to one of a plurality of routes according to a dispatch plan configured for purposes other than electromagnetic signal testing (Col. 2 lines 60-67, Col. 3 lines 51-55, Col. 4 lines 60-66 and Col. 5 lines 23-31 "courier services", "taxis" & "Refuse disposal trucks), said dispatch plan comprising vehicle data and route data; (Col. 3 lines 45-55, Col. 4 lines 60-66 and Col. 5 lines 18-31)

installing one of a plurality of electromagnetic signal testing units in a plurality of vehicles; (Abstract and Col. 2 line 61 test unit 16 mounted on vehicle)

gathering electromagnetic signal data using said electromagnetic signal testing units installed in said one or more vehicles while operating according to said dispatch plan; (Col. 4 line 60 through Col. 5 line 31) and

receiving data gathered by each of said plurality of signal testing units. (Col. 2 lines 25-29 and Col. 3 lines 34-39)

Rickli differs from the claimed invention by not explicitly reciting comparing said test parameters to said dispatch plan for each of said plurality of routes, identifying one or more optimal routes from among said plurality of routes based on the results of said

comparing, said optimal routes comprises those most nearly satisfying said test parameters, with one or more of the vehicles assigned to one each of said one or more optimal routes.

In an analogous art, Somoza teaches a method and system for wireless network planning (Abstract) including

establishing test parameters; (Col. 8 lines 47-50 and lines 62-66 "planned RF coverage data")

comparing said test parameters to said dispatch plan for each of said plurality of routes, (Col. 8 line 62 through Col. 9 line 9 4 *i.e.* completed by the software tool, the "test parameters" is analogous to the "planned RF coverage" and the dispatch plan is the "street map data" Fig. 6 [620] and Fig. 2 [220])

identifying one or more optimal routes from among said plurality of routes based on the results of said comparing, said optimal routes comprises those most nearly satisfying said test parameters, (Fig. 2 [220], Fig. 6 [620], Col. 8 lines 1-6, Fig. 6 and Col. 8 line 58 through Col. 9 line 12)

with one or more of the vehicles assigned to one each of said one or more optimal routes. (Col. 8 lines 37-57 and Col. 9 lines 1-27)

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to be motivated to implement the method for drive testing a base station through the use of vehicles operated by courier services and garbage trucks of Rickli after modifying it to incorporate the selection of the optimal drive testing routes for a base station of Somoza since Somoza enables software simulation for determining

not only the optimal base station deployment locations prior to actually installing the base stations but also for determining the optimal drive test route based on the roads available. (Somoza Col. 7 line 67 through Col. 8 line 19 and Col. 8 line 67 through Col. 9 line 12) Therefore, it is obvious to one of ordinary skill in the art to recognize the software within Somoza can be used to select the optimal vehicles within the fleet of Rickli for installing the drive testing equipment based on vehicles' expected daily routes. (Rickli Col. 5 lines 27-31 and Somoza Col. 8 line 67 through Col. 9 line 12)

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Regarding claim 2, Rickli in view of Somoza teaches the step of establishing test parameters further comprises storing a geographic parameter (Somoza Col. 8 [GPS hardware, telemetry readings, topographical overlays with actual signal strength measurements ect.] and Col. 9),

and wherein said route data includes a start location, an end location, and one or more intermediate stop locations. (Rickli Col. 3 lines 25-45, Somoza Col. 8 line 58 through Col. 9 line 12 and Fig. 5)

Regarding claim 3, Rickli in view of Somoza teaches said step of storing a geographic parameter further comprises:

storing one or more tower identifiers, each defining a tower location, (Somoza Col. 9 lines 4-7 and Fig. 5 & 7) and

storing one or more sector identifiers, each of said one or more sector identifiers comprising a sector location and an antenna configuration. (Rickli Fig. 1, Somoza Fig. 5 and 7)

Regarding claim 4, Rickli in view of Somoza teaches wherein the step of establishing test parameters further comprises storing a time parameter describing a time window (Rickli Col. 2 lines 44-59 and Somoza Col. 8 lines 34-35),

and wherein said route data includes a start time corresponding to said start location, an end time corresponding to said end location, and one or more intermediate stop durations corresponding to said one or more intermediate stop locations. (Somoza Fig. 5 and Col. 8 lines 34-35)

Regarding claim 5, Rickli in view of Somoza teaches said step of storing a time parameter further comprises:

storing one more lingering parameters, each of said one or more lingering parameters comprising a linger duration, a tower identifier, and a sector identifier. (Somoza Col. 8 lines 34-35, Fig. 5 and Rickli Col. 3 lines 23-33)

Regarding claim 6, Rickli in view of Somoza teaches wherein said step of establishing test parameters further comprises:

storing one or more unit parameters, each of said one or more unit parameters comprising a unit type and a unit feature; and

storing a quantity parameter defining an available number of said units,

and wherein said vehicle data includes a number of vehicles in said fleet. (Rickli Col. 5 lines 22-30, 44-51 and Col. 7 lines 48-55)

Regarding claim 8, Rickli in view of Somoza teaches wherein said step of establishing test parameters further comprises:

assigning a weight to one or more of said test parameters, each of said weights correlated to the importance of said one or more of said test parameters relative to the other. (Rickli Col. 2 lines 44-48, Col. 3 lines 33-36 and Col. 4 lines 60-65)

Regarding claim 9, Rickli in view of Somoza teaches wherein said step of comparing said test parameters to said dispatch plan is executed by a computer software program product. (Somoza Col. 8 lines 1-6)

Regarding claim 10, Rickli in view of Somoza teaches wherein said step of establishing said test parameters is accomplished by a wireless provider, said wireless provider generally unrelated to said service enterprise. (Somoza Col. 7 lines 64 through Col. 8 line 52)

Regarding claim 11, the limitations of claim 11 are rejected as being the same reason set forth above in claim 1.

Regarding claim 12, the limitations of claim 12 are rejected as being the same reason set forth above in claim 2.

Regarding claim 13, the limitations of claim 13 are rejected as being the same reason set forth above in claim 3.

Regarding claim 14, the limitations of claim 14 are rejected as being the same reason set forth above in claim 4.

Regarding claim 15, the limitations of claim 15 are rejected as being the same reason set forth above in claim 5.

Regarding claim 16, the limitations of claim 16 are rejected as being the same reason set forth above in claim 6.

Regarding claim 17, the limitations of claim 17 are rejected as being the same reason set forth above in claim 8.

Regarding claim 18, the limitations of claim 18 are rejected as being the same reason set forth above in claim 1.

Regarding claim 19, the limitations of claim 19 are rejected as being the same reason set forth above in claim 2.

Regarding claim 20, the limitations of claim 20 are rejected as being the same reason set forth above in claim 3.

Regarding claim 21, the limitations of claim 21 are rejected as being the same reason set forth above in claim 4.

Regarding claim 22, the limitations of claim 22 are rejected as being the same reason set forth above in claim 5.

Regarding claim 23, the limitations of claim 23 are rejected as being the same reason set forth above in claim 6.

Regarding claim 25, the limitations of claim 25 are rejected as being the same reason set forth above in claim 8.

Regarding claim 26, the limitations of claim 26 are rejected as being the same reason set forth above in claim 9.

Regarding claim 27, the limitations of claim 27 are rejected as being the same reason set forth above in claim 9.

Regarding claim 28, the limitations of claim 28 are rejected as being the same reason set forth above in claim 10.

9. Claims 7 and 24 rejected under 35 U.S.C. 103(a) as being unpatentable over Rickli in view of Somoza as applied to claims 1 and 18 above, and further in view of Jones (US-5,752,164).

Regarding claims 7 and 24, Rickli in view of Somoza teaches the method and system of claims 1 and 18, but differs from the claimed invention by not explicitly reciting providing a universal bracket in each vehicle in said fleet, said bracket configured to releasably receive any of a variety of types of said testing units.

In an analogous art, Jones teaches a universal bracket in each vehicle in said fleet, said bracket configured to releasably receive any of a variety of types of said testing units. (Col. 7 lines 26-40) At the time the invention was made, it would have been obvious to one of ordinary skill in the art to implement the system and method of drive testing RF signals from a base station of Rickli in view of Somoza after modifying it to incorporate a universal mounting bracket of Jones. One of ordinary skill in the art would have been motivated to do this since having a universal mounting bracket allows a contractor to easily drive test different devices within a cell, saving time and money.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW SAMS whose telephone number is (571)272-8099. The examiner can normally be reached on M-F 8-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MCS

2/18/2009

/Lester Kincaid/

Supervisory Patent Examiner, Art Unit 2617